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Merighi et al.(10) **Pub. No.: US 2021/0261995 A1**(43) **Pub. Date: Aug. 26, 2021**(54) **BIOSYNTHESIS OF HUMAN MILK
OLIGOSACCHARIDES IN ENGINEERED
BACTERIA***C12N 9/10* (2006.01)*C12N 9/38* (2006.01)*C12P 19/18* (2006.01)*C12P 19/26* (2006.01)*C07H 3/06* (2006.01)*C07H 13/04* (2006.01)*C12N 15/70* (2006.01)*C12N 9/14* (2006.01)(71) Applicant: **Glycosyn LLC**, Waltham, MA (US)(72) Inventors: **Massimo Merighi**, Somerville, MA
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Brighton, MA (US)(21) Appl. No.: **17/241,441**(22) Filed: **Apr. 27, 2021****Related U.S. Application Data**(60) Continuation of application No. 15/442,127, filed on
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(57)

ABSTRACTThe invention provides compositions and methods for engi-
neering bacteria to produce fucosylated oligosaccharides,
and the use thereof in the prevention or treatment of infec-
tion.**Specification includes a Sequence Listing.**